



# State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WATER QUALITY

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June 9, 1993

1/055/009  
**RECEIVED**

JUN 11 1993

DIVISION OF  
OIL, GAS & MINING

Mr. Dave Hodson, Manager  
Barneys Canyon Mine  
P.O. Box 311  
Bingham Canyon, UT 84006-0311

RE: Sealant for Sulfide Ore; Ground Water  
Discharge Permit No. UGW350001

Dear Mr. Hodson:

We received your letter dated March 26, 1993, the letter dated May 28, 1993, and the literature regarding the proposed sealants for capping the stockpiled sulfide ore at your facility. Road Oyle is a pitch and resin emulsion formulated as a natural flexible pavement cement and soil stabilizer. **Lignosite** is an aqueous form of **Lignosite Calcium Lignosulfate**, and as you suggest it may be a better choice than the original selection.

Although laboratory tests for permeability are not available for the various sealants that were reviewed, Lignosite appears to be the most suitable according to your field tests and the literature; therefore it is approved for use in the capping. Lignosite is nontoxic and has excellent adhesive qualities. The ore piles develop a rather impermeable crust on their own and with an eighth inch sealant cap most precipitation should be excluded from the piles. Please advise us when the application is completed.

The ore dumps should be graded to a rounded top if not already in that configuration. They must be moved by December 31, 1998, the date specified in the permit. Should you have questions, call Mack Croft at 538-6146.

Sincerely,

Fred C. Pehrson, P.E., Manager  
Permits, Compliance & Monitoring Branch

FCP:MC:gt

cc: Kent Miner  
SL City/County Health Dept.  
DOGM

P:SEAL2.LTR  
FILE:BARNEYS CANYON MINE